

FORM PTO-1449
(REV. 7-85)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. SCKET NO.

Sheet 1 of 5

21212C
APPLICATION NO.

10/079,035

APPLICANT

Ryals et al.

FILING DATE

FEBRUARY 19, 2002

Confirmation No.

7909

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1638

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
ARK	AA	5,986,082	11/16/99	Uknes et al.	800	279	12/12/97
I	AB	5,614,395	3/25/97	Ryals et al.	435	6	1/13/94
I	AC	6,031,153	2/29/00	Ryals et al.	800	279	12/23/97
ARK	AD	6,091,004	7/18/00	Ryals et al.	800	301	6/20/97

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	OFFICE	CLASS	SUBCLASS	TRANSLATION YES NO	
ARK	AC	0 534 858	3/31/93	EPO	-	-	<input type="checkbox"/>	<input type="checkbox"/>
I	AD	WO 95/19443	7/20/95	PCT	-	-	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ARK	AE	WO 94/16077	7/24/94	PCT	-	-	<input type="checkbox"/>	<input type="checkbox"/>

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

ARK	AF	Alexander et al., <i>Increased tolerance to two oomycete pathogens in transgenic tobacco expressing pathogenesis-related protein 1a</i> <i>Proceedings of the National Academy of Sciences</i> , Vol. 90, (1993) pp. 7327-7331
I	AG	Bell et al., <i>Assignment of 30 Microsatellite Loci to the Linkage Map of Arabidopsis</i> <i>Genomics</i> , Vol. 19, (1994) pp. 137-144
I	AH	Bhat, K.S., <i>Generation of a plasmid vector for deletion cloning by rapid multiple site-directed mutagenesis</i> <i>Gene</i> , Vol. 134, (1993) pp. 83-87
I	AI	Bi et al., <i>Hydrogen peroxide does not function downstream of salicylic acid in the induction of PR protein expression</i> <i>The Plant Journal</i> , Vol. 8(2), (1995) 235-245
I	AJ	Bouchez et al., <i>A new YAC library for genome mapping in Arabidopsis</i> Abstract, 6 th International Conference on Arabidopsis Research (1995)
I	AK	Bowie J.U. et al., <i>Deciphering the Message in Protein Sequences: Tolerance to Amino Substitutions</i> <i>Science</i> , Vol. 247 (1990) pp. 1306-1310
ARK	AL	Bowling et al., <i>A Mutation in Arabidopsis That Leads to Constitutive Expression of Systemic Acquired Resistance</i> <i>The Plant Cell</i> , Vol. 6 (1994) pp. 1845-1857

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AM	Broun et al., <i>Catalytic Plasticity of Fatty Acid Modification Enzymes Underlying Chemical Diversity of Plant Lipids</i> <i>Science</i> , Vol. 282 (1998) pp. 1315-1317
AN	Büschges et al., <i>The Barley Mlo Gene: A Novel Control Element of Plant Pathogen Resistance</i> <i>Cell</i> , Vol. 88 (1997) pp. 695-704
AO	Cameron et al., <i>Biologically induced systemic acquired resistance in Arabidopsis thaliana</i> <i>The Plant Journal</i> , Vol. 5(5) (1994) pp. 715-725
AP	Cao et al., <i>Characterization of an Arabidopsis Mutant That Is Nonresponsive to Inducers of Systemic Acquired Resistance</i> <i>The Plant Cell</i> , Vol. 6 (1994) pp. 1583-1592
AQ	Cao et al., <i>The Arabidopsis NPR1 Gene that Controls Systemic Acquired Resistance Encodes a Novel Protein Containing Ankyrin Repeats</i> <i>Cell</i> , Vol. 88, (1997) pp. 57-63
AR	Cao et al., Genbank Accession No. U76707, <i>The Arabidopsis NPR1 gene that controls systemic acquired resistance encodes a novel protein containing ankyrin repeats</i> <i>Cell</i> , Vol. 88(1), (1997) pp. 57-63
AS	Century et al., <i>NDR1, a locus of Arabidopsis thaliana that is required for disease resistance to both a bacterial and a fungal protein</i> <i>Proceedings of the National Academy of Science</i> , Vol. 92, (1995) pp. 6597-6601
AT	Creusot et al., <i>The CIC library: a large insert YAC library for genome mapping in Arabidopsis thaliana</i> <i>The Plant Journal</i> , Vol. 8(5) (1995) pp. 763-770
AU	Delaney et al., <i>A Central Role of Salicylic Acid in Plant Disease Resistance</i> <i>Science</i> , Vol. 266 (1994) pp. 1247-1250
AV	Delaney et al., <i>Arabidopsis signal transduction mutants defective in chemically and biologically induced disease resistance</i> , Abstract, 6 th International Meeting on Arabidopsis Research, (1995)
AW	Delaney et al., <i>Arabidopsis signal transduction mutant defective in chemically and biologically induced disease resistance</i> <i>Proceedings of the National Academy of Science USA</i> , Vol. 92 (1995), pp. 6602-6606
AX	Delaney, T.P., <i>Genetic Dissection of Acquired Resistance to Disease</i> <i>Plant Physiology</i> , Vol. 113 (1997) pp. 1-12
AY	Dietrich et al., <i>Arabidopsis Mutants Simulating Disease Resistance Response</i> <i>Cell</i> , Vol. 77 (1994) pp. 565-577
AZ	Elledge et al., <i>λYES: A multifunctional cDNA expression vector for the isolation of genes by complementation of yeast and Escherichia coli mutations</i> <i>Proceedings of the National Academy of Sciences, USA</i> , Vol. 88 (1991) pp. 1731-1735
BA	Friedrich et al., <i>A benzothiadiazole derivative induces systemic acquired resistance in tobacco</i> <i>The Plant Journal</i> , Vol. 10 (1996) pp. 61-70

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AAK	BB	Gaffney et al., <i>Requirement of Salicylic Acid for the Induction of Systemic Acquired Resistance Science</i> , Vol. 261 (1993) pp. 754-756
	BC	Gatz C., <i>Chemical Control of Gene Expression Annual Review Plant Physiology and Plant Molecular Biology</i> , Vol. 48 (1997) pp. 89-108
	BD	Glazebrook et al., <i>Isolation of Arabidopsis Mutants With Enhanced Disease Susceptibility by Direct Screening Genetics</i> , Vol. 143 (1996) pp. 973-982
	BE	Görlach et al., <i>Benzothiadiazole, a Novel Class of Inducers of Systemic Acquired Resistance, Activates Gene Expression and Disease Resistance in Wheat The Plant Cell</i> , Vol. 8 (1996) pp. 629-643
	BF	Greenberg et al., <i>Programmed Cell Death in Plants: A Pathogen-Triggered Response Activated Coordinately with Multiple Defense Functions Cell</i> , Vol. 77 (1994) pp. 551-563
	BG	Hebsgaard et al., <i>Splice site prediction in Arabidopsis thaliana pre-mRNA by combining local and global sequence information Nucleic Acids Research</i> , Vol. 24 (1996) pp. 3439-3452
	BH	Hill, M.A., and Preiss, J. <i>Functional Analysis of Conserved Histidines in ADP-Glucose Pyrophosphorylase from Escherichia coli Biochemistry Biophysics and Research Communications</i> , Vol. 244 (1998) pp. 573-577
	BI	Hunt et al., <i>Systemic Acquired Resistance Signal Transduction Critical Reviews in Plant Sciences</i> , Vol. 15 (1996) pp. 583-606
	BJ	Hunt et al., <i>Recent Advances in Systemic Acquired Resistance Research - A Review Gene</i> , Vol. 179 (1996) pp. 89-95
	BK	Kessmann et al., <i>Induction of Systemic Acquired Disease Resistance in Plants by Chemicals Annual Review Phytopathology</i> , Vol. 32 (1994) 439-459
	BL	Lawton et al., "The Molecular Biology of Systemic Acquired Resistance", <i>Mechanisms of Plant Defense Responses</i> , B. Fritig and M. Legrand (eds.) Kluwer Academic Publishers (Netherlands) 422-432 (1993)
	BM	Lawton et al., <i>Systemic Acquired Resistance in Arabidopsis Requires Salicylic Acid but Not Ethylene Molecular Plant-Microbe Interactions</i> , Vol. 8 (1995) pp. 863-870
	BN	Lawton et al., <i>Benzothiadiazole induces disease resistance in Arabidopsis by activation of the systemic acquired resistance signal transduction pathway The Plant Journal</i> , Vol. 10 (1996) pp. 71-82
AAK	BO	Lazar, E. et al., <i>Transforming Growth Factor α: Mutation of Aspartic Acid 47 and Leucine 48 Results in Different Biological Activities Molecular and Cellular Biology</i> , Vol. 8 (1988), pp. 1247-1252

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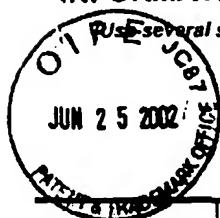
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BP	Lister et al., <i>Recombinant inbred lines for mapping RFLP and phenotypic markers in Arabidopsis thaliana</i> <i>The Plant Journal</i> , Vol. 4 (1993) pp. 745-750
BQ	Liu et al., <i>Generation of a high-quality P1 library of Arabidopsis suitable for chromosome walking</i> <i>The Plant Journal</i> , Vol. 7 (1995) pp. 351-358
BR	Maher et al., <i>Increased disease susceptibility of transgenic tobacco plants with suppressed levels of preformed phenylpropanoid products</i> <i>Proceedings of the National Academy of Sciences, USA</i> , Vol. 91 (1994) pp. 7802-7806
BS	Mauch-Mani et al., <i>Systemic Acquired Resistance in Arabidopsis thaliana Induced by a Predisposing Infection with a Pathogenic Isolate of Fusarium oxysporum</i> <i>Molecular Plant-Microbe Interactions</i> , Vol. 7 (1994) pp. 378-383
BT	Mauch-Mani et al., <i>Production of Salicylic Acid Precursors Is a Major Function of Phenylalanine Ammonia-Lyase in the Resistance of Arabidopsis to Peronospora parasitica</i> <i>The Plant Cell</i> , Vol. 8 (1996) pp. 203-212
BU	Métraux et al., <i>Increase in Salicylic Acid at the Onset of Systemic Acquired Resistance in Cucumber</i> <i>Science</i> , Vol. 250 (1990) pp. 1004-1006
BV	Mindrinos et al., <i>The A. thaliana Disease Resistance Gene RPS2 Encodes a Protein Containing a Nucleotide-Binding Site and Leucine-Rich Repeats</i> <i>Cell</i> , Vol. 78 (1994) pp. 1089-1099
BW	Newman et al., <i>Genbank Accession No. T22612, Genes galore: a summary of methods for accessing results from large-scale partial sequencing of anonymous Arabidopsis cDNA clones</i> <i>Plant Physiology</i> , Vol. 106 (1994) pp. 1241-1255
BX	Pallas et al., <i>Tobacco plants epigenetically suppressed in phenylalanine ammonia-lyase expression do not develop systemic acquired resistance in response to infection by tobacco mosaic virus</i> <i>The Plant Journal</i> , Vol. 10 (1996) pp. 281-293
BY	Parker et al., <i>Characterization of eds1, a Mutation in Arabidopsis Suppressing Resistance to Peronospora parasitica Specified by Several Different RPP Genes</i> <i>The Plant Cell</i> , Vol. 8 (1996) pp. 2033-2046
BZ	Payne et al., <i>Isolation of the genomic clone for pathogenesis-related protein 1a from Nicotiana tabacum cv. Xanthi-nc</i> <i>Plant Molecular Biology</i> , Vol. 11 (1988) pp. 89-94
CA	Rothstein et al., <i>Promoter cassettes, antibiotic-resistance genes, and vectors for plant transformation</i> <i>Gene</i> , Vol. 53, (1987) pp. 153-161.
CB	Ryals et al., <i>Signal transduction in systemic acquired resistance</i> <i>Proceedings of the National Academy of Sciences USA</i> , Vol. 92 (1995) pp. 4202-4205

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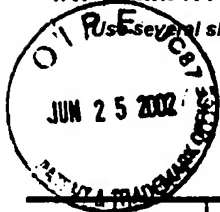
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CC	Ryals, J.A. et al., <i>Systemic Acquired Resistance</i> <i>The Plant Cell</i> , Vol. 8 (1996) pp. 1809-1819
CD	Ryals, J. et al., <i>The Arabidopsis NIM1 Protein Shows Homology to the Mammalian Transcription Factor Inhibitor IκB</i> <i>The Plant Cell</i> , Vol. 9 (1997) pp. 425-439
CE	Ryals, et al., Sequences, pp. 4-20
CF	Shulaev, et al., <i>Is Salicylic Acid a Translocated Signal of Systemic Acquired Resistance in Tobacco?</i> <i>The Plant Cell</i> , Vol. 7 (1995) pp. 1691-1701
CG	Simoens et al., <i>Isolation of genes expressed in specific tissues of Arabidopsis thaliana by differential screening of a genomic library</i> <i>Gene</i> , Vol. 67 (1988) pp. 1-11
CH	Uknes et al., <i>Acquired Resistance in Arabidopsis</i> <i>The Plant Cell</i> , Vol. 4 (1992) pp. 645-656
CI	Uknes et al., <i>Regulation of Pathogenesis-Related Protein-1a Gene Expression in Tobacco</i> <i>The Plant Cell</i> , Vol. 5 (1993) pp. 159-169
CJ	Uknes et al., <i>Biological Induction of Systemic Acquired Resistance in Arabidopsis</i> <i>Molecular Plant-Microbe Interactions</i> , Vol. 6 (1993) pp. 692-698
CK	Uknes et al., <i>Reduction of risk for growers: methods for the development of disease-resistant crops</i> <i>New Phytology</i> , Vol. 133 (1996) pp. 3-10
CL	Vernooij et al., <i>Salicylic Acid Is Not the Translocated Signal Responsible for Inducing Systemic Acquired Resistance but Is Required in Signal Transduction</i> <i>The Plant Cell</i> , Vol. 6 (1994) pp. 959-965
CM	Vernooij et al., <i>2,6-Dichloroisonicotinic Acid-Induced Resistance to Pathogens Without the Accumulation of Salicylic Acid</i> <i>Molecular Plant-Microbe Interactions</i> , Vol. 8 (1995) pp. 228-234
CN	Verwoerd et al., <i>A small-scale procedure for the rapid isolation of plant RNAs</i> <i>Nucleic Acids Research</i> , Vol. 17 (1989) pp. 2362
CO	Vos et al., <i>AFLP: a new technique for DNA fingerprinting</i> <i>Nucleic Acids Research</i> , Vol. 23 (1995) 4407-4414
CP	Ward et al., <i>Coordinate Gene Activity in Response to Agents That Induce Systemic Acquired Resistance</i> <i>The Plant Cell</i> , Vol. 3 (1991) pp. 1085-1094
CQ	Weymann et al., <i>Suppression and Restoration of Lesion Formation in Arabidopsis lsd Mutants</i> <i>The Plant Cell</i> , Vol. 7 (1995) pp. 2013-2022

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